



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Andersen Corporation
100 Fourth Ave. North
Miami, FL 33174

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Laminated Veneered Lumber Mullion System

APPROVAL DOCUMENT: Drawing No. **M01-02**, titled "Laminated Veneered Lumber Mullion System", sheets 1 through 9 of 9, prepared by Al Farooq Corporation, dated 7/31/01 with revision on 11/20/02, signed and sealed by Humayoun Farooq, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

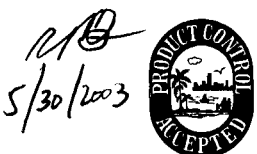
TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Theodore Berman, P.E.**



NOA No 03-0327.13
Expiration Date: June 19, 2008
Approval Date: June 19, 2003
Page 1

Andersen Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA)

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **M01-02**, titled "Laminated Veneered Lumber Mullion System", sheets 1 through 9 of 9, prepared by Al Farooq Corporation, dated 7/31/01 with revision on 11/20/02, signed and sealed by Humayoun Farooq, P.E.

B. TESTS

1. Test reports on
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94along with marked-up drawings and installation diagram of a mullion system, prepared by Architectural Testing, Inc., Test Report No. ATI 02-034211.01, dated 5/22/02, signed and sealed by Steven Urich, P.E.

C. CALCULATIONS

1. Anchor Calculations and structural analysis prepared by Al Farooq Corporation, dated 2/14/03, signed and sealed by Humayoun Farooq, P.E.

D. MATERIAL CERTIFICATIONS

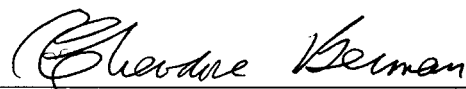
1. None

E. STATEMENTS

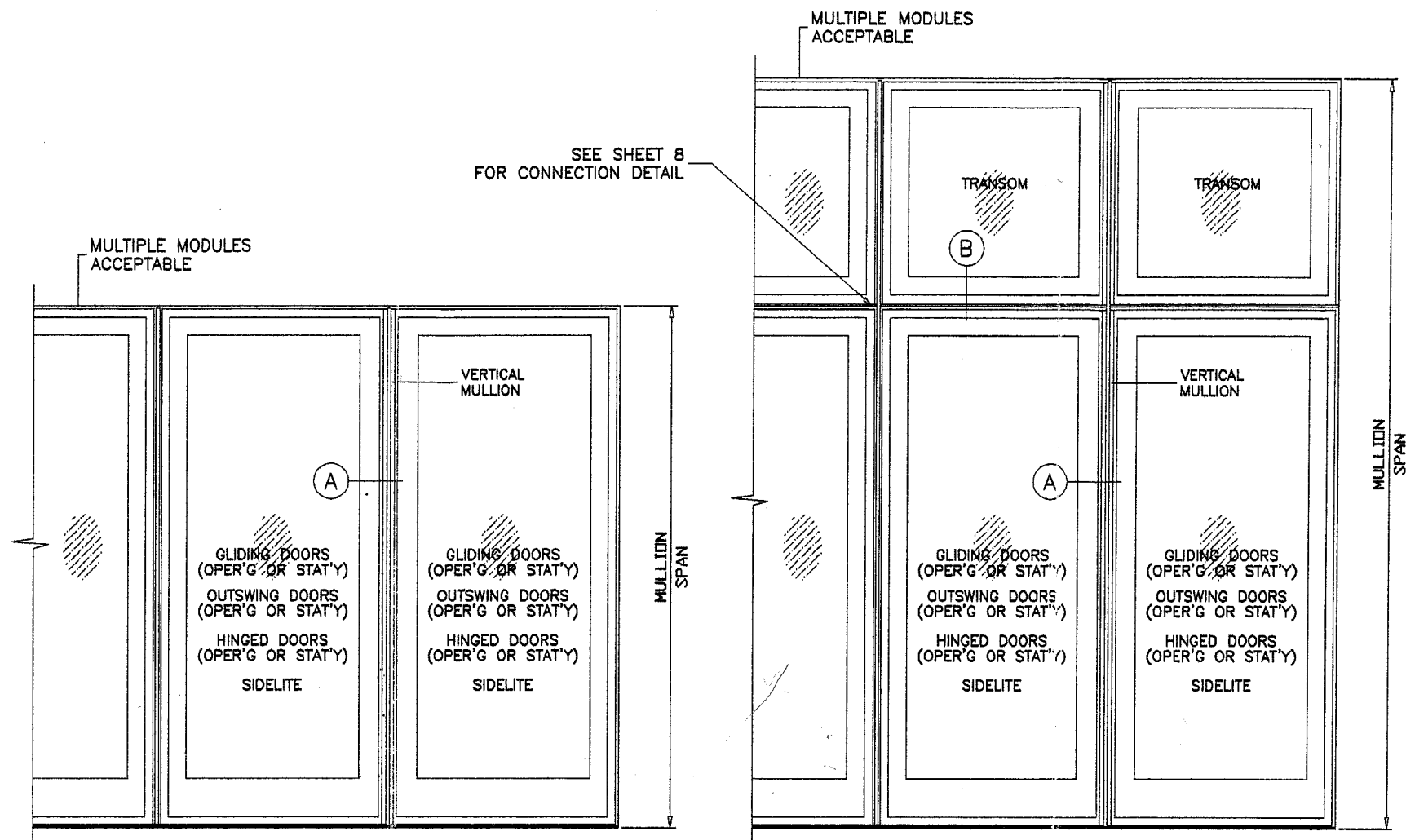
1. Statement letter of conformance, dated 6/12/02, signed and sealed by Steven Urich, P.E.

F. OTHER

1. Letter from the consultant stating that the product is in compliance with the Florida Building Code (FBC).



Theodore Berman, P.E.
Deputy Director, Product Control Division
NOA No 03-0327.13
Expiration Date: June 19, 2008
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LAMINATED VENEERED LUMBER (LVL) MULLION SYSTEM DOOR FRAME MEMBERS INCLUDED IN PROPERTIES

MULLION SYSTEM IS RATED FOR LARGE MISSILE IMPACT.

DESIGN LOAD RATING FOR THIS MULLION TO BE AS PER CHARTS SHOWN ON SHEETS 3 THRU 5.

SEE SEPARATE NOA FOR DOOR/SIDELITE ANCHORS AND DESIGN LOADS.

APPROVAL APPLIES TO MULLIONS COMBINATIONS WITH FRAME MEMBERS OF OUTSWING/INSWING DOORS, GLIDING DOORS, SIDELITES AND TRANSOMS IN ANY COMBINATIONS, SEE SHEET 2 FOR FRAME MEMBER DETAILS.

THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE OF THE 2001 FLORIDA BUILDING CODE.

ALSO FOR WIND LOADS AS PER ASCE 7-88, ASCE 7-93, ASCE 7-95 OR ASCE 7-98 AS REQUIRED BY PREVAILING BUILDING CODE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT COVERED IN THIS SUBMITTAL TO BE ENGINEERED SEPARATELY.

INSTRUCTIONS:

USE MULLION LOAD CHART AS FOLLOWS.

- STEP 1** DETERMINE DESIGN LOAD REQUIRED FOR PARTICULAR OPENING.
- STEP 2** USE DADE COUNTY APPROVED GLAZING PRODUCTS MEETING ABOVE LOAD REQUIREMENTS, FOR WINDOWS/DOORS DOOR ANCHORS, VERT. MULLION AND MULLION ANCHORS.
- STEP 3** USING MULLION LOAD CHART DETERMINE MULLION CAPACITY WHICH MUST EXCEED THE DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

TYPICAL MULLION ARRANGEMENT

INDEX OF DRAWING	
SHEET NO.	DESCRIPTION
1	GENERAL NOTES, INSTRUCTIONS FOR USING CHARTS
2	FRAME & MULLION DETAILS
3	CHART #1 FOR 5-9/16" & 7-9/16" HORIZ. MULLIONS
4	CHART #2 FOR 5-9/16" & 7-9/16" VERT. MULLION
5	CHART #3 FOR 7-9/16" VERTICAL MULLIONS RATING FOR MULLIONS WITH SINGLE DOOR/SIDELITE AT SIDES
6	DETAIL 'A' SHOWS VERT. MULLION CONNECTION WITH FRAME MEMBERS DETAIL 'B' SHOWS HORIZ. MULLION CONNECTION WITH FRAME MEMBERS
7	5-9/16" HORIZ./VERT. MULLION CONNECTION DETAILS
8	7-9/16" HORIZ./VERT. MULLION CONNECTION DETAILS
9	7-9/16" VERT. MULLION CONNECTION DETAIL TO HORIZ. MULLION

Approved as complying with the
Florida Building Code
Date 06/19/03
NOA# 03-0322-13
Miami Dade Product Control
Division
By *[Signature]*

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

MAR 10 2003

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

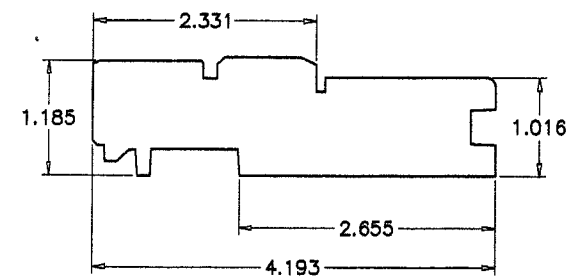
ANDERSEN CORPORATION
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BAYPORT, MN. 55003-1096
TEL (800) 426-7691 FAX (-)

revisions:
no date by description
A 11.20.02 GENERAL REVISION

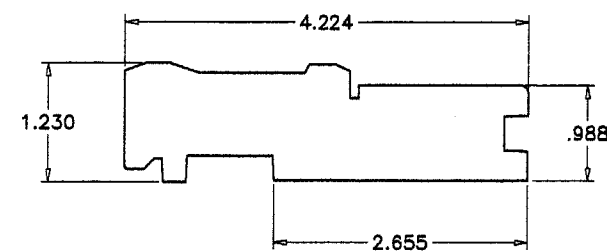
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dr. by: HAMID
chk. by:

drawing no.
M01-02
sheet 1 of 9

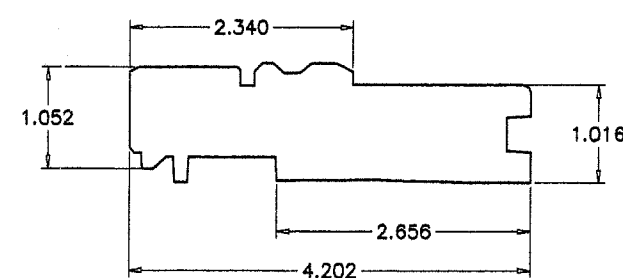
MULLION W01-02AC



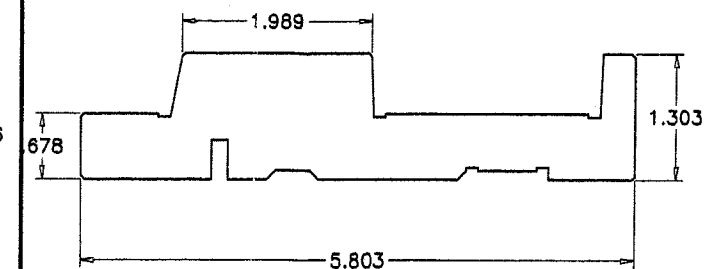
FWO
OUTSWING DOOR HEAD/JAMB (OPERATING/STATIONARY)
57019
WOOD



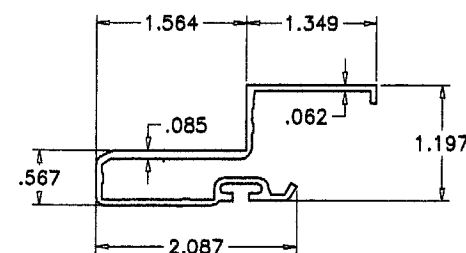
FWH
HINGED DOOR HEAD/JAMB (OPERATING/STATIONARY)
52253
WOOD



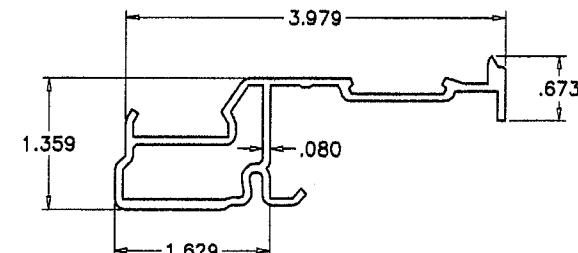
FWT/FWSL
TRANSOM/SIDELITE FRAME



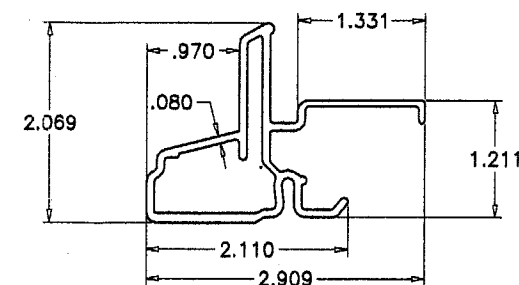
FWG
GLIDING DOOR JAMB (OPERATING)
50022
WOOD



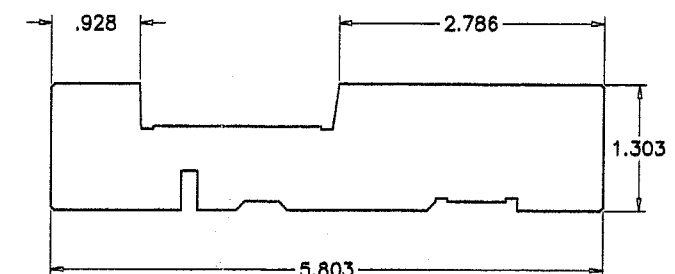
FWO
OUTSWING HEAD/JAMB COVER (OPERATING/STATIONARY)
57031
FIBERGLASS



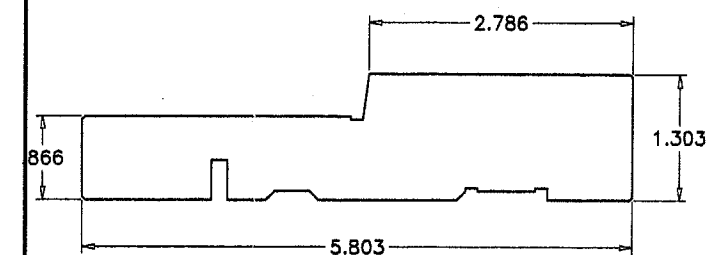
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HINGED HEAD/JAMB COVER (OPERATING/STATIONARY)
52225
FIBERGLASS



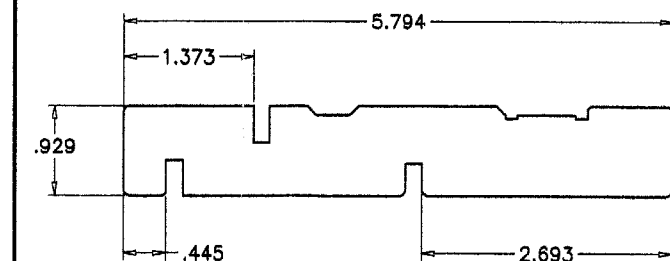
FWT/FWSL
TRANSOM/SIDELITE FRAME COVER



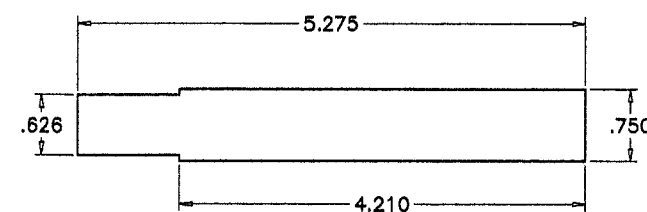
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GLIDING DOOR JAMB (STATIONARY)
50017
WOOD



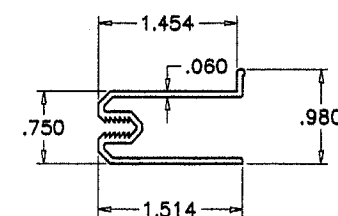
FWG
GLIDING DOOR SIDELITE
WOOD



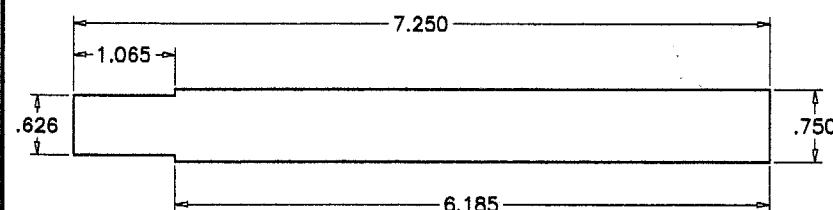
FWG
GLIDING DOOR FRAME HEAD
WOOD



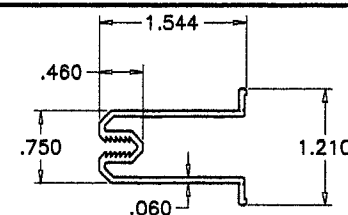
5-9/16" MULLION
29353
LAMINATED VENEERED LUMBER



MULLION COVER
29351
ALUMINUM



7-9/16" MULLION
29434
LAMINATED VENEERED LUMBER



MULLION COVER
29351
ALUMINUM

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

MAR 10 2004

Approved as complying with the
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Date 06/19/03
NOA# 03-0322.13
Miami Dade Product Control
Division
By *[Signature]*

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MULLION/W01-02AC

LAMINATED VENEERED LUMBER MULLION SYSTEM
ANDERSEN CORPORATION
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BAYPORT, MN. 55003-1096
TEL. (800) 426-7691 FAX (-)
AW

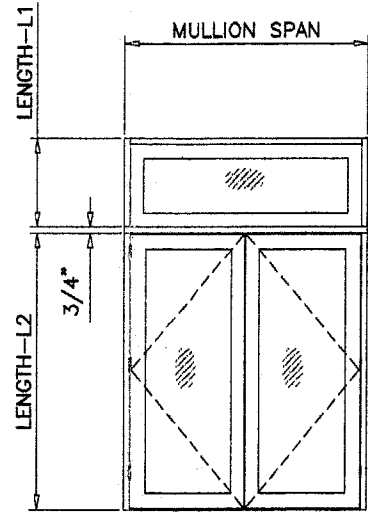
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date: 07-31-01
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
M01-02
sheet 2 of 9

CHART #1						
HORIZONTAL MULLION CAPACITY - PSF						
LENGTH-L2 INCHES	LENGTH-L1 INCHES	MULLION SPAN INCHES	5-9/16" MULLION		7-9/16" MULLION	
			EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
80"	12-13/16"	48"	62.0	77.0	65.0	77.0
	17-13/16"		62.0	77.0	65.0	77.0
	21-13/16"		62.0	77.0	65.0	77.0
	12-13/16"	54"	62.0	77.0	65.0	77.0
	17-13/16"		62.0	77.0	65.0	77.0
	21-13/16"		62.0	77.0	65.0	77.0
	12-13/16"	60"	62.0	77.0	65.0	77.0
	17-13/16"		62.0	77.0	65.0	77.0
	21-13/16"		62.0	77.0	65.0	77.0
	12-13/16"	66"	62.0	77.0	65.0	77.0
	17-13/16"		62.0	77.0	65.0	77.0
	21-13/16"		62.0	77.0	65.0	77.0
82-7/8"	12-13/16"	48"	62.0	77.0	65.0	77.0
	17-13/16"		62.0	77.0	65.0	77.0
	21-13/16"		62.0	77.0	65.0	77.0
	12-13/16"	54"	62.0	77.0	65.0	77.0
	17-13/16"		62.0	77.0	65.0	77.0
	21-13/16"		62.0	77.0	65.0	77.0
	12-13/16"	60"	62.0	77.0	65.0	77.0
	17-13/16"		62.0	77.0	65.0	77.0
	21-13/16"		62.0	77.0	65.0	77.0
	12-13/16"	66"	62.0	77.0	65.0	77.0
	17-13/16"		62.0	77.0	65.0	77.0
	21-13/16"		62.0	77.0	65.0	77.0
90"	12-13/16"	48"	62.0	77.0	65.0	77.0
	17-13/16"		62.0	77.0	65.0	77.0
	21-13/16"		62.0	77.0	65.0	77.0
	12-13/16"	54"	62.0	77.0	65.0	77.0
	17-13/16"		62.0	77.0	65.0	77.0
	21-13/16"		62.0	77.0	65.0	77.0
	12-13/16"	60"	62.0	77.0	65.0	77.0
	17-13/16"		62.0	77.0	65.0	77.0
	21-13/16"		62.0	77.0	65.0	77.0
	12-13/16"	66"	62.0	77.0	65.0	77.0
	17-13/16"		62.0	77.0	65.0	77.0
	21-13/16"		62.0	77.0	65.0	77.0
90"	12-13/16"	72"	62.0	77.0	65.0	77.0
	17-13/16"		62.0	77.0	65.0	77.0
	21-13/16"		61.8	76.8	65.0	77.0

CHART #1						
HORIZONTAL MULLION CAPACITY - PSF						
LENGTH-L2 INCHES	LENGTH-L1 INCHES	MULLION SPAN INCHES	5-9/16" MULLION		7-9/16" MULLION	
			EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
96"	12-13/16"	48"	62.0	77.0	65.0	77.0
	17-13/16"		62.0	77.0	65.0	77.0
	21-13/16"		62.0	77.0	65.0	77.0
	12-13/16"	54"	62.0	77.0	65.0	77.0
	17-13/16"		62.0	77.0	65.0	77.0
	21-13/16"		62.0	77.0	65.0	77.0
	12-13/16"	60"	62.0	77.0	65.0	77.0
	17-13/16"		62.0	77.0	65.0	77.0
	21-13/16"		62.0	77.0	65.0	77.0
	12-13/16"	66"	62.0	77.0	65.0	77.0
	17-13/16"		62.0	77.0	65.0	77.0
	21-13/16"		62.0	77.0	65.0	77.0
96"	12-13/16"	72"	62.0	77.0	65.0	77.0
	17-13/16"		60.8	75.4	65.0	77.0
	21-13/16"		58.7	72.9	65.0	77.0



5-9/16" & 7-9/16" LVL

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538
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Miami Dade Product Control
Division
By: *[Signature]*

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MULLION/W01-02AC

LAMINATED VENEERED LUMBER MULLION SYSTEM

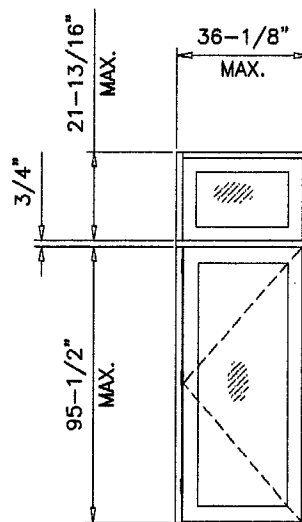
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revisions:

no	date	by	description

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scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
M01-02
sheet 3 of 9



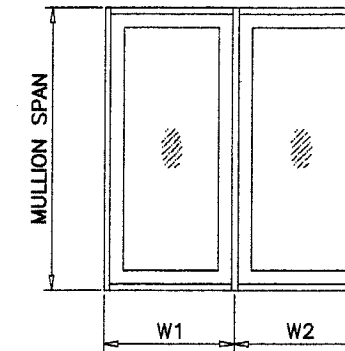
5-9/16" LVL

MAXIMUM DESIGN LOAD RATING = + 62.0 PSF
(FOR SIZE SHOWN ABOVE OR SMALLER) - 77.0 PSF

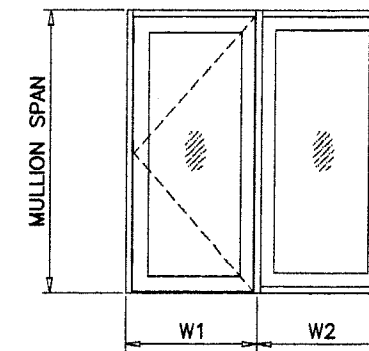
7-9/16" LVL

MAXIMUM DESIGN LOAD RATING = + 65.0 PSF
(FOR SIZE SHOWN ABOVE OR SMALLER) - 77.0 PSF

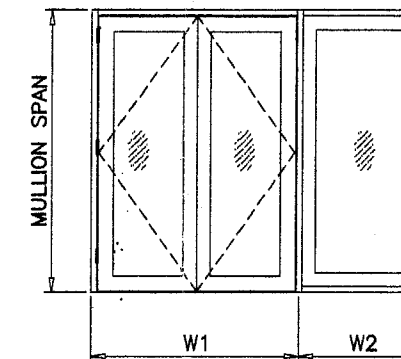
CHART #2 5-9/16" & 7-9/16" VERTICAL MULLION			
AVG. WIDTH INCHES	MULLION SPAN INCHES	MULLION CAPACITY - PSF	
		EXT. (+)	INT. (-)
24"	60"	62.0	77.0
30"		62.0	77.0
36"		62.0	77.0
42"		62.0	77.0
48"		62.0	77.0
24"	66"	62.0	77.0
30"		62.0	77.0
36"		62.0	77.0
42"		62.0	77.0
48"		62.0	77.0
24"	72"	62.0	77.0
30"		62.0	77.0
36"		62.0	77.0
42"		62.0	77.0
48"		62.0	77.0
24"	78"	62.0	77.0
30"		62.0	77.0
36"		62.0	77.0
42"		62.0	77.0
48"		62.0	77.0
24"	84"	62.0	77.0
30"		62.0	77.0
36"		62.0	77.0
42"		62.0	77.0
48"		60.5	75.2
24"	90"	62.0	77.0
30"		62.0	77.0
36"		62.0	77.0
42"		60.2	74.7
48"		55.0	68.4
24"	96"	62.0	77.0
30"		62.0	77.0
36"		62.0	77.0
42"		53.9	66.9
48"		48.2	59.9



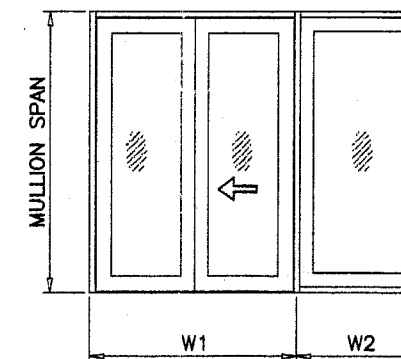
$$\text{AVG. WIDTH} = \frac{W1 + W2}{2}$$



$$\text{AVG. WIDTH} = \frac{W1 + W2}{2}$$



$$\text{AVG. WIDTH} = \frac{W1}{4} + \frac{W2}{2}$$



$$\text{AVG. WIDTH} = \frac{W1}{4} + \frac{W2}{2}$$

5-9/16" LVL

7-9/16" LVL

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

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Miami Dade Product Control
Division
By: *Al-Farooq*

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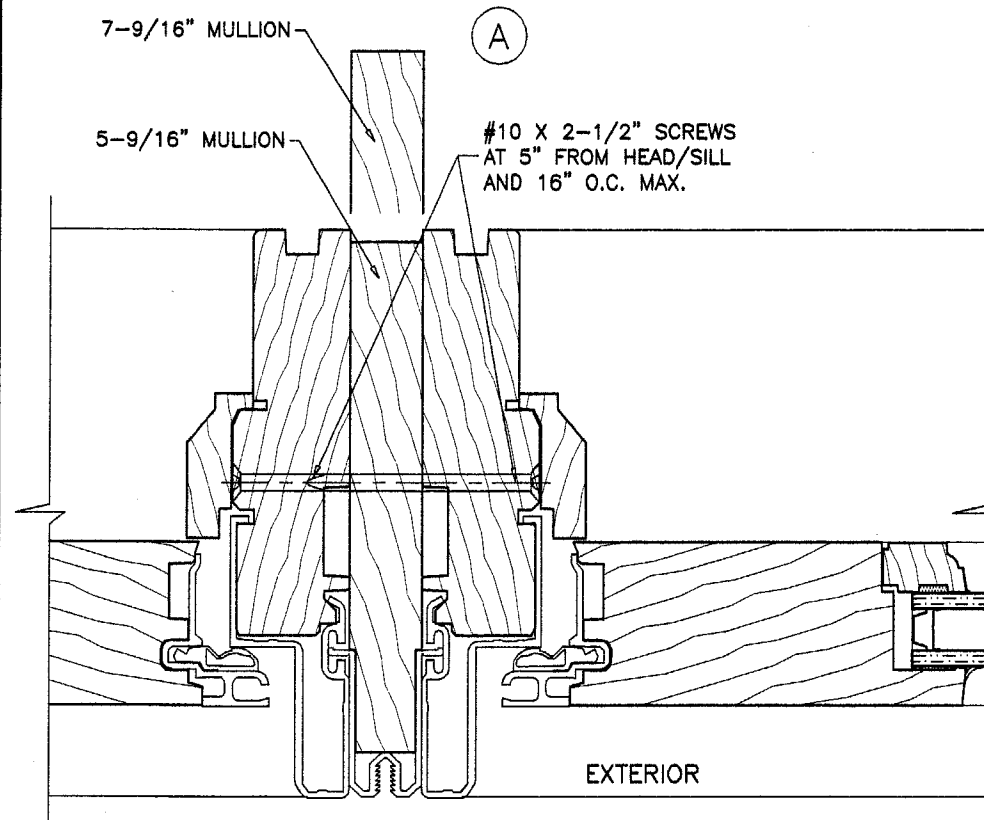
revisions:

no	date	by	description

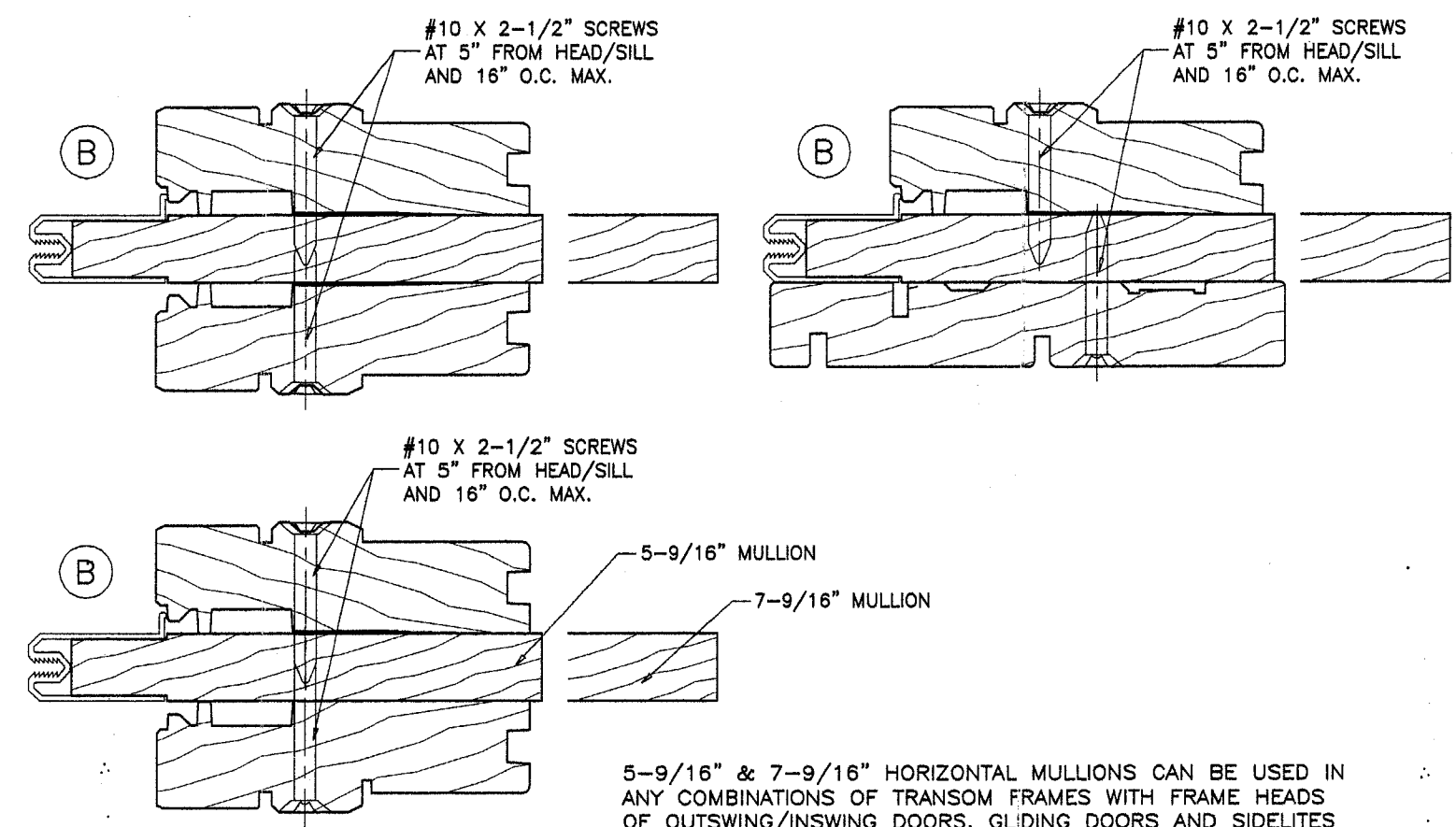
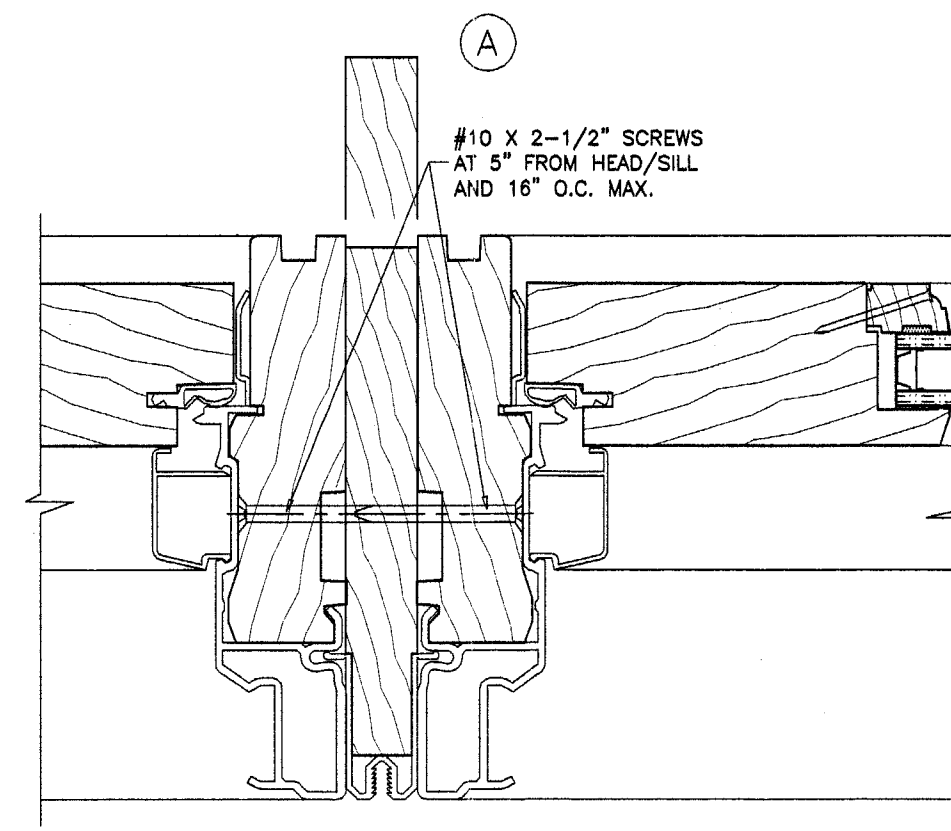
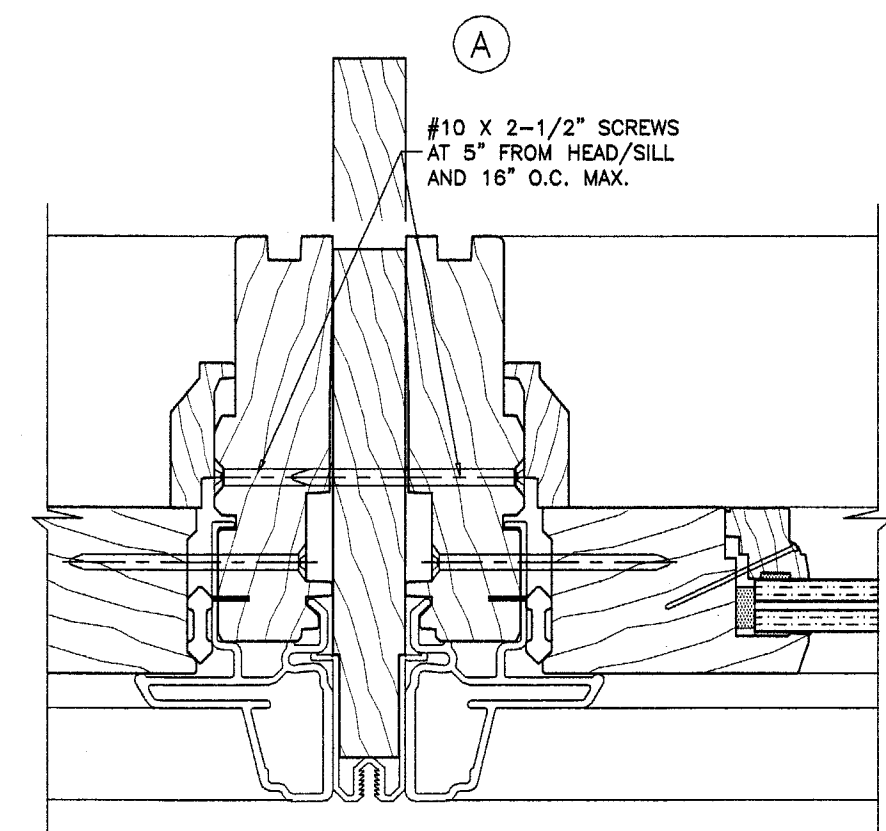
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dr. by: HAMID
chk. by: *Al-Farooq*

drawing no.
M01-02

sheet 4 of 9



5-9/16" & 7-9/16" VERTICAL MULLIONS CAN BE USED IN ANY COMBINATIONS OF FRAME JAMBS OF OUTSWING/INSWING DOORS, GLIDING DOORS, SIDELITES AND TRANSOMS, SEE SHEET 2 FOR DETAILS.



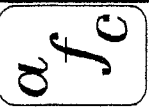
HEADER
5-9/16" & 7-9/16" LVL

5-9/16" & 7-9/16" HORIZONTAL MULLIONS CAN BE USED IN ANY COMBINATIONS OF TRANSOM FRAMES WITH FRAME HEADS OF OUTSWING/INSWING DOORS, GLIDING DOORS AND SIDELITES SEE SHEET 2 FOR DETAILS.


Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

MAR 10 2003

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Florida Building Code
Date 06/19/03
NOA# 03-0327.13
Miami Dade Product Control
Division
By *Sharon Bernier*



AL-FAROOQ CORPORATION
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TEL. (305) 264-8100 FAX. (305) 262-6978
MULLION W01-02AC



ANDERSEN CORPORATION
LAMINATED VENEERED LUMBER MULLION SYSTEM
100 FOURTH AVE. NORTH
BAYPORT, MN. 55003-1096
TEL (800) 426-7681 FAX (-)

revisions:	
no	date by description

date: 07-31-01

scale: 1/2" = 1"

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chk. by:

drawing no.
M01-02

sheet 6 of 9

VERT. MULL
HEAD CONNECTION

HORIZ. MULL
JAMB CONNECTION

VERT. MULL
SILL CONNECTION

UNIT HEAD/JAMB

MULLION AND
MULLION COVER

ADDL. ANCHOR REQD.
FOR INSTALLATIONS INTO
WOOD ONLY

5-9/16" MULLION
CONNECTION DETAIL

.078 THK. STEEL PLATE

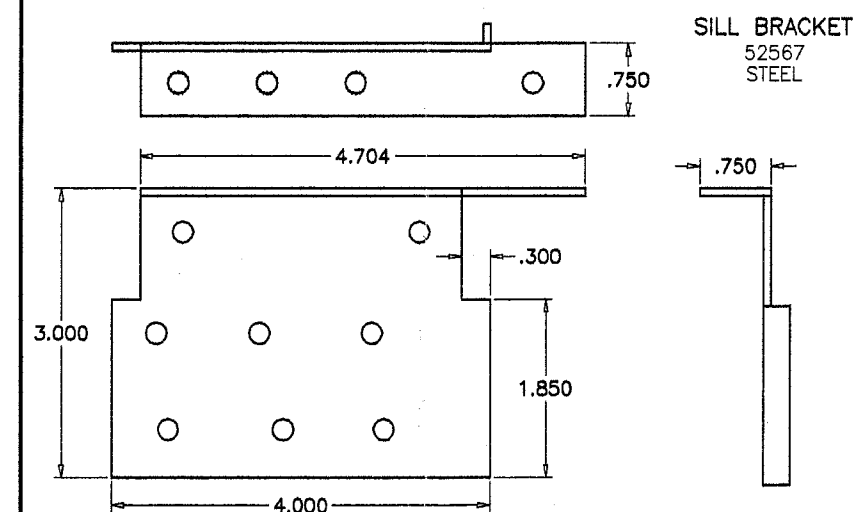
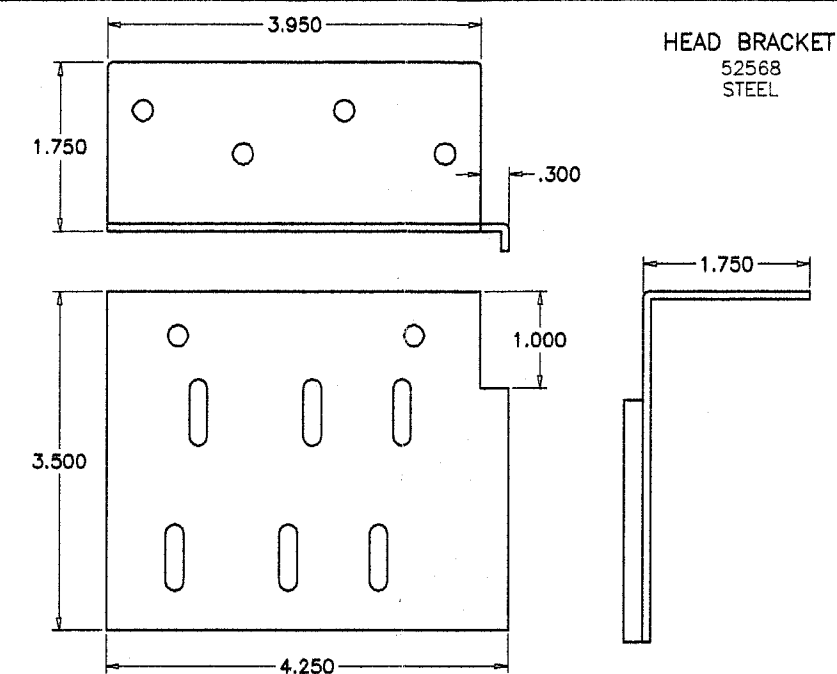
#8 X 1" SCREWS
6 PER PLATE

TYPICAL ANCHORS
(4) AT HEAD

TYPICAL ANCHORS AT SILL
(3) TYPE A, C OR D
(4) TYPE B

#8 X 1" SCREWS
6 PER PLATE

.078 THK. STEEL PLATE



TYPICAL ANCHORS:

- ANCHOR (A) 3/16" ϕ TAPCONS (BY ELCO) OR EQUIV. CONC. ANCHOR HOLDING CURRENT NOTICE OF ACCEPTANCE. THRU 1 BY WOOD BUCKS INTO MASONRY OR CONCRETE 1-1/2" MIN. EMBED INTO MASONRY OR CONCRETE
- ANCHOR (B) 3/16" ϕ TAPCONS (BY ELCO) OR EQUIV. CONC. ANCHOR HOLDING CURRENT NOTICE OF ACCEPTANCE. INTO 2BY WOOD BUCKS OR WOOD STRUCTURE 1-1/2" MIN. PENETRATION INTO WOOD
- ANCHOR (C) #12 SMS INTO METAL STRUCTURES STEEL OR ALUMINUM 1/8" MIN. THICKNESS
- ANCHOR (D) 3/16" ϕ TAPCONS (BY ELCO) OR EQUIV. CONC. ANCHOR HOLDING CURRENT NOTICE OF ACCEPTANCE. DIRECTLY INTO MASONRY OR CONCRETE 1-1/2" MIN. EMBED INTO MASONRY OR CONCRETE

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16567
C.A.N. 3538

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Miami Dade Product Control
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By: *Glenn Boman*

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MULLION W01-02AC

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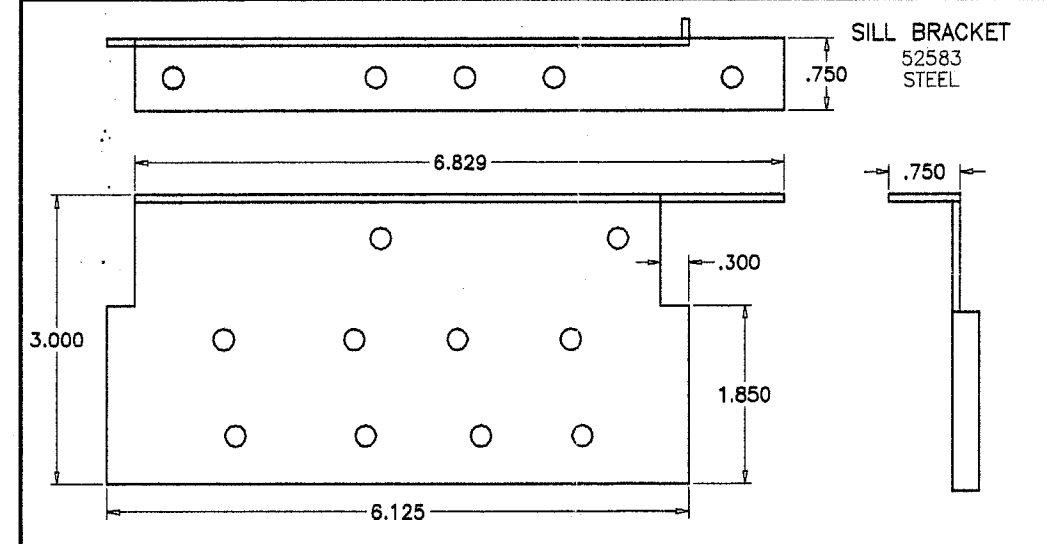
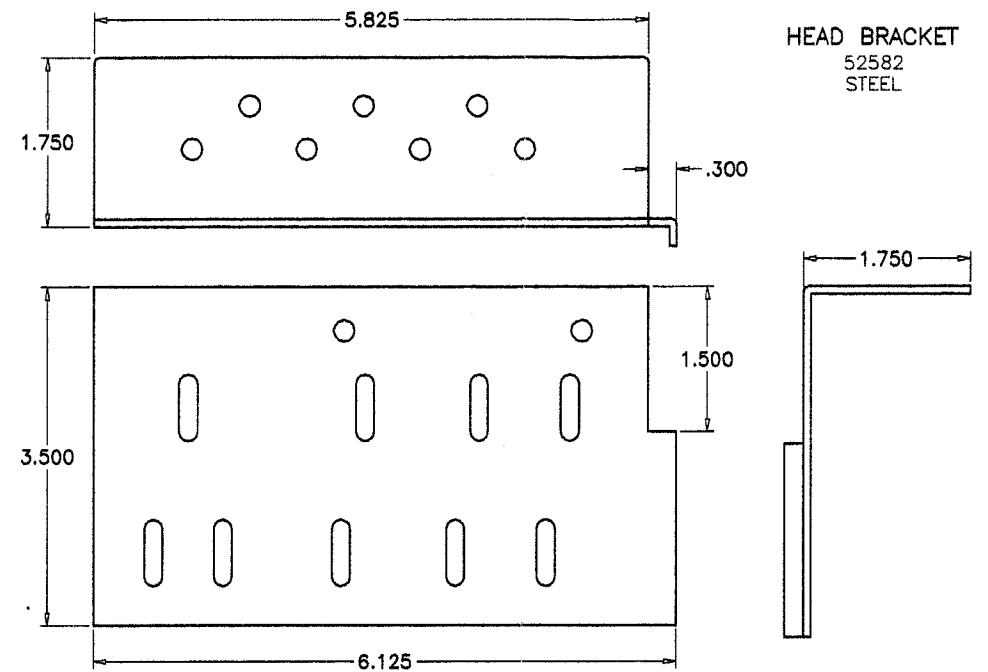
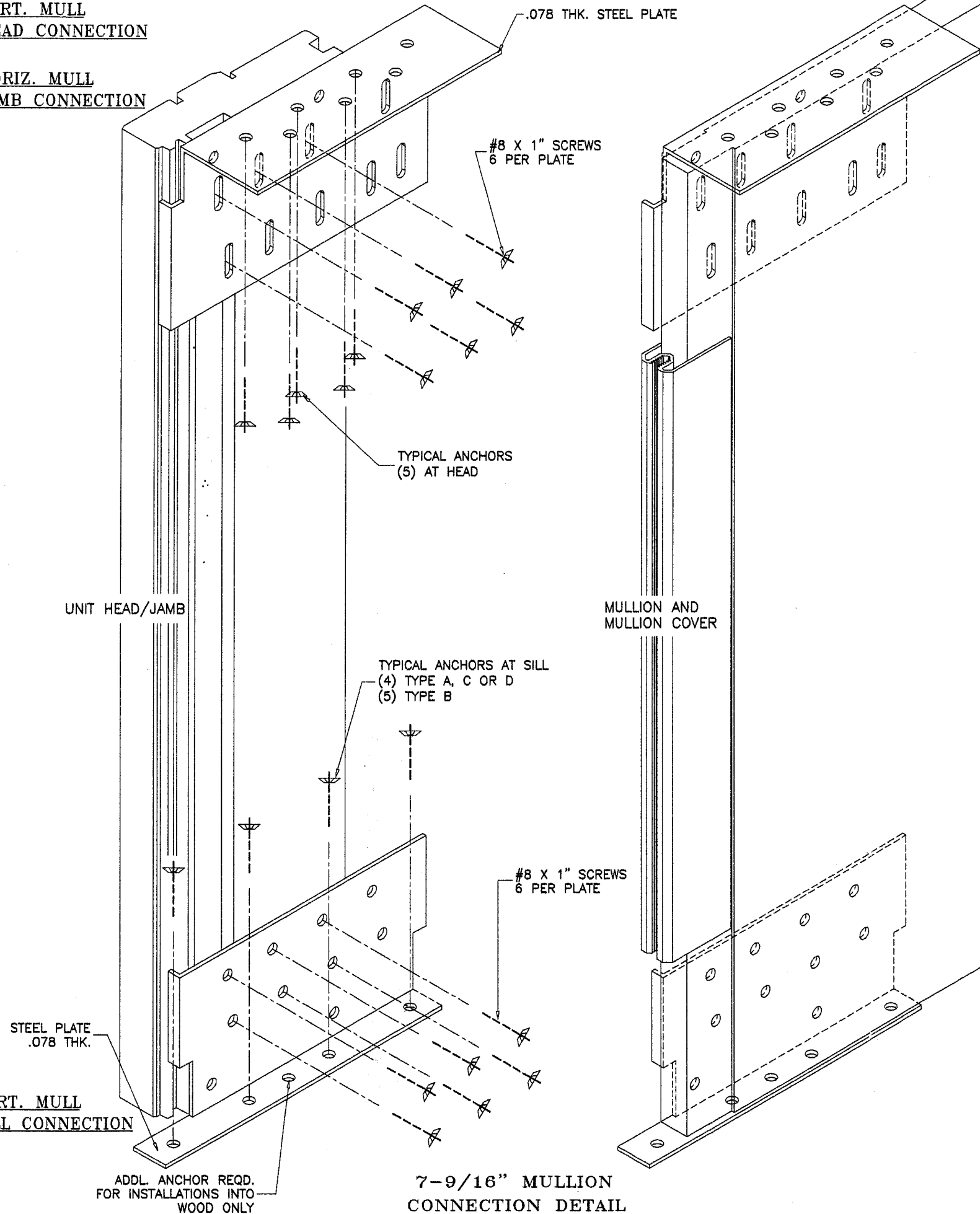
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scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
M01-02
sheet 7 of 9

**VERT. MULL
HEAD CONNECTION**

**HORIZ. MULL
JAMB CONNECTION**

**VERT. MULL
SILL CONNECTION**



TYPICAL ANCHORS:

- ANCHOR (A) 3/16" Ø TAPCONS (BY ELCO) OR
EQUIV. CONC. ANCHOR HOLDING CURRENT NOTICE OF ACCEPTANCE.
THRU 1 BY WOOD BUCKS INTO MASONRY OR CONCRETE
1-1/2" MIN. EMBED INTO MASONRY OR CONCRETE
- ANCHOR (B) 3/16" Ø TAPCONS (BY ELCO) OR
EQUIV. CONC. ANCHOR HOLDING CURRENT NOTICE OF ACCEPTANCE.
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
1-1/2" MIN. PENETRATION INTO WOOD
- ANCHOR (C) #12 SMS
INTO METAL STRUCTURES
STEEL OR ALUMINUM 1/8" MIN. THICKNESS
- ANCHOR (D) 3/16" Ø TAPCONS (BY ELCO) OR
EQUIV. CONC. ANCHOR HOLDING CURRENT NOTICE OF ACCEPTANCE.
DIRECTLY INTO MASONRY OR CONCRETE
1-1/2" MIN. EMBED INTO MASONRY OR CONCRETE

Engr: DR. HUMAYUN FAROOQ
STRUCTURES
FLA. PE # 16557
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MAR 10 2004

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NOAH 03-032213
Miami Dade Product Control
By: *Glenn Lerman*

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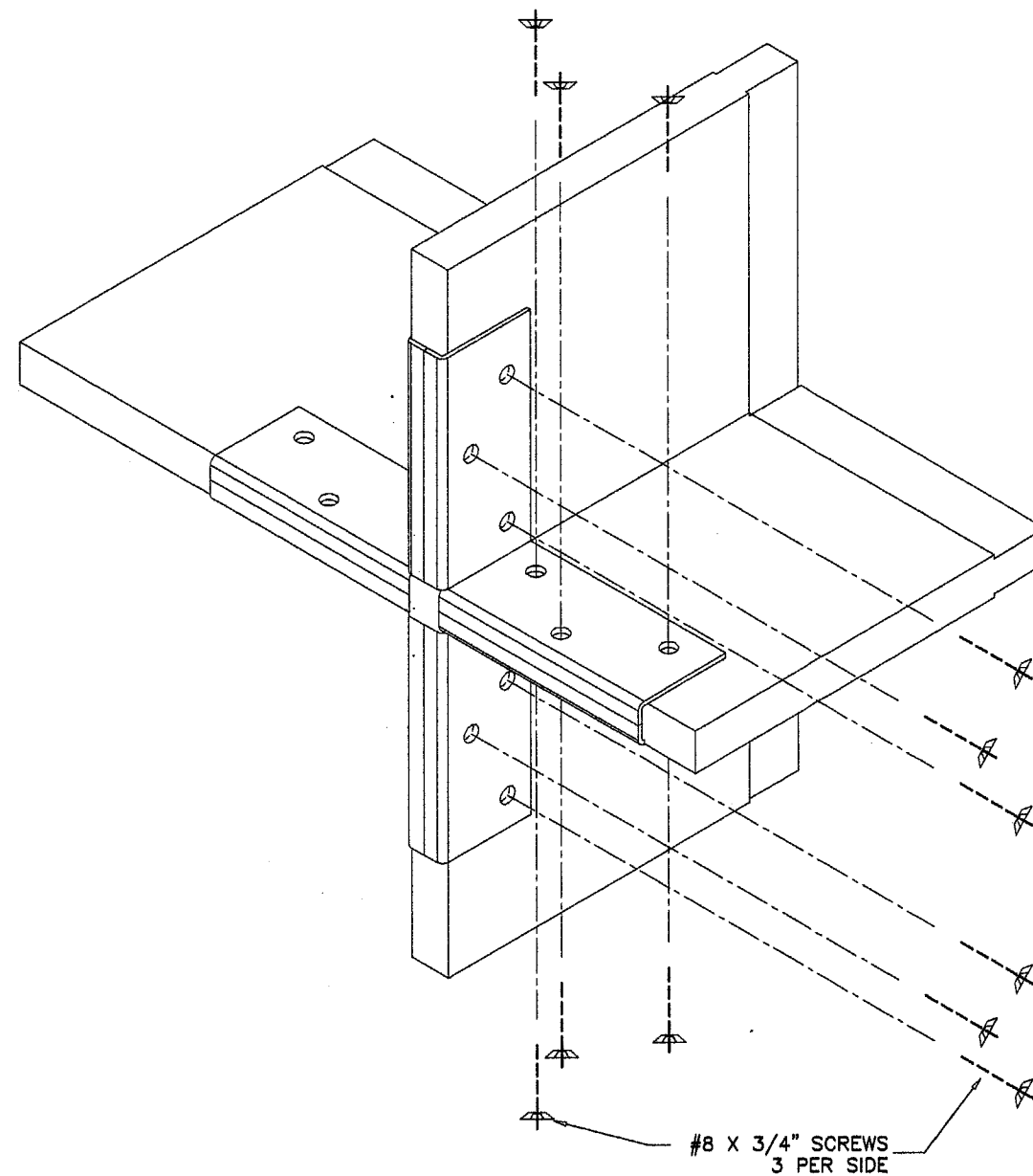
ANDERSEN CORPORATION
LAMINATED VENEERED LUMBER MULLION SYSTEM
100 FOURTH AVE. NORTH
BAYPORT, MN. 55003-1096
TEL (800) 426-7691 FAX (-)

revisions:		date		by description	
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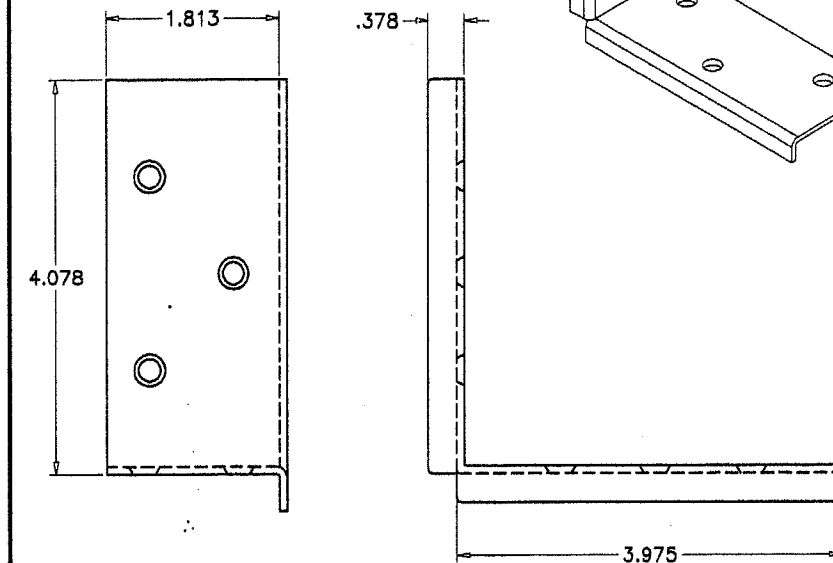
drawing no.	MO1-02
sheet	8 of 9

7-9/16" LVL



VERT. MULLION CONNECTION TO HORIZONTAL MULLION

L- BRACKET
52584
STEEL



Engr: DR. HUMAYOON FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

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Miami Dade Product Control
Division
By: *[Signature]*

afc

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MULLION W01-02AC

revisions:	no	date	by	description

date: 07-31-01
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

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sheet 9 of 9